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A conceptual framework for improving well-being in people with a diagnosis of psychosis

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Abstract

Background: Well-being is important for people with severe mental illness, such as psychosis. So far, no clear concept of well-being exists for this client group. A recent systematic review and narrative synthesis developed a static framework of well-being components. The present study aims to validate the static framework and to illuminate the processes by which well-being is experienced by people with psychosis.

Methods: Semi-structured interviews were conducted with 23 service users with psychosis exploring their experience of well-being. Thematic analysis was used to analyse the data employing techniques taken from grounded theory to enhance the rigour of the analysis. Respondent validation was undertaken with 13 of the 23 participants.

Results: Three superordinate categories of well-being were identified: current sense of self; transition to enhanced sense of self; and enhanced sense of self. In the dynamic process of improving well-being the current sense of self undergoes a transition to an enhanced sense of self. The four factors influencing the transition are consistent with the static framework of well-being, hence validating the static framework. In addition, we identified three determinants of current sense of self and seven indicators of enhanced sense of self, which represent the achievement of improved well-being.

Conclusions: This study provides an empirically defensible framework for understanding well-being in terms of determinants, influences and indicators. The influences are targets for interventions to improve well-being, and the indicators are outcome domains to assess the effectiveness of services in supporting well-being.

Key words: well-being, psychosis, conceptual framework, process

Background

Well-being has become a popular topic in recent years. Extensive research has been published on well-being and its determinants, focusing on a variety of groups, such as the general population across the life span and cultures (Li and Fung, 2013; Carey, 2013), and people with various disorders including diabetes (Dimitraki & Karademas, 2013), pain (Kratz et al., 2013), or HIV/AIDS (Earnshaw et al., 2013). In mental health research the focus has often been on common mental disorders, such as burnout (Priebe & Reininghaus, 2011), depression (Lanfredi et al., 2013, Bellani et al., 2013), or distress (Shepard & Sundermann, 2013). The importance of well-being for mental health research and practice is supported by research showing an association between well-being and improved functioning, increased resilience and life satisfaction (Fredrickson & Joiner, 2002), and suggesting its protective value against the onset or re-occurrence of mental illness (Schueller & Parks, 2012).

Well-being is also important for people with serious mental illness, e.g. psychosis, especially in the context of recovery (Slade, 2010; Resnick & Rosenheck, 2006). In a systematic review of studies on psychosis, 'well-being' was used within a range of theoretical perspectives, with an unclear distinction from concepts such as health related quality of life, mental health, affect, life satisfaction, social adjustment, and other psychological conceptualisations (Schrack et al., 2013a). Interventions to increase well-being in psychosis were highly diverse and not based on a coherent framework of well-being. The systematic review developed a **static framework of well-being**, based on the measurement of well-being in research involving people with psychosis. This static framework differentiates four domains of factors relevant to well-being: observable (visible behaviours and characteristics); non-observable (internal emotional and cognitive processes); proximal (factors under partial individual control in the immediate physical and social environment); and distal (factors beyond individual influence, in the more distant environment), as well as a separate rating of individual overall self-defined well-being.

The static framework offers an empirically-defensible organising structure for well-being research in psychosis, but does not illuminate the processes by which well-being is experienced or modified in this client group. This is an important omission, since understanding processes of change will identify the most promising target points for evidence-based interventions. The aims of the present qualitative study are (1) to validate the static framework of well-being by applying it to a second data source for triangulation, and (2) to develop a **dynamic framework of well-being** to describe the process of changes involved in well-being.

Methods

Sample

A convenience sample of individuals with psychosis was recruited from community mental health teams in London in October and November 2012. We attempted to ensure diversity by recruiting individuals with a range of illness durations, gender and ethnic backgrounds. Recruitment was conducted with the goal of theoretical saturation, *i.e.* until additional interviews no longer led to the generation of additional categories (Willig, 2008). Inclusion criteria were 18-65 years of age, a diagnosis of psychosis, using or having used mental health services, sufficient fluency in English, and able to give informed consent.

Procedures

Participants were recruited by a nurse at a depot clinic, and from research registers of two community mental health services. Diagnosis was identified from research registers or by the recruiting nurse, and verified in person. One researcher (BS) conducted all interviews. The topic guide asked about the personal experience of well-being and its improvement. Follow-up prompts were used to stimulate in depth description of topics. The topic guide was iteratively adapted according to the concurrent analysis. Interviews lasted 20-70 minutes. All interviews were audio recorded, transcribed, and anonymised. All participants were contacted and invited for a re-interview (conducted by BS and SR) to validate the emergent dynamic framework. These interviews lasted up to 20 minutes, and were recorded, repeatedly listened to, and relevant sections were transcribed for inclusion in the analysis.

Analysis

We began the analysis with theoretical assumptions about well-being based on a previous literature review conducted partly by the researchers involved in this analysis (Schrack et al., 2013) but without an a priori hypothesis. The analysis followed three consecutive aims: (1) to identify a conceptual framework for the experience of well-being in people with psychosis, (2) to test the validity of current theory on well-being, in particular the static framework of well-being, and (3) to then construct a refined and revised version of the conceptual framework identified in the current analysis.

Transcripts were coded using NVivo9, a computer software package which helps qualitative researchers to organise large volumes of data and facilitates deep levels of analysis in complex data. The analysis is not conducted by the software but remains done by the

researchers. We applied thematic analysis used a combination of inductive and theoretically driven techniques (Braun and Clarke, 2006). The rigour of the analysis was enhanced by using techniques taken from grounded theory including iterative inductive coding, line-by-line coding, constant comparison, the use of memos throughout the analysis process, as well as the use of summary tables to organise clusters of topics for each participant (Willig, 2008).

Themes from the first round of interviews were identified, coded, and checked for fidelity in an inductive process. This process involved iterative coding following regular inspection of the data and discussion amongst researchers, leading to an increasingly refined organisation of data into emerging thematic entities. The initial descriptive analysis stage was followed by an interpretative stage. To interpret and understand the meaning of participant's experience, we drew on a range of existing theoretical constructs. At this stage we also deductively applied the static framework of well-being onto the data to establish its validity. Clusters of categories were named, partly using participants' own words and partly by introducing existing formulations on higher levels of analysis. As the aim of the study was to understand a process, a coding paradigm was introduced, *i.e.* the emergent framework was applied to each participant to test and optimise its validity. This involved the generation of summary tables capturing the interplay between the framework categories identified for each participant. Two raters (BS and VB) independently coded transcripts, and the analysis was regularly discussed amongst the researcher team. Alternative interpretations, groupings of categories and interrelations between them were discussed, consensus reached, and the emerging framework adapted in an iterative process. The re-interviews were analysed in the same way to identify themes that confirm, contradict, or extend the framework.

Results

Sample

23 participants were interviewed, of whom 13 agreed to be re-interviewed. Characteristics of participants are shown in Table 1.

Insert Table 1 here

Aim 1: Validation of the static framework of well-being

The coding framework for influences on transition to an enhanced sense of self is shown in column 2 of Table 2. The respondent validation identified no changes to the results.

Insert Table 2 here

The four elements of the static framework (non-observable, observable, proximal and distal) provided an adequate organising framework to allow full categorisation of the influences on the transition to an enhanced sense of self identified by participants. This transition represents a process of enhancing well-being, providing independent validation of the static framework.

Aim 2: Development of a dynamic framework of well-being

Participants described well-being as a desirable state which needed active input to be achieved and also to be maintained. Well-being was tied to participants' sense of self and involved transition from a current sense of self, described as deficient at least in some of its aspects, towards an enhanced sense of self. The attainment of this enhanced sense of self was perceived as increased well-being, and attributed to the successful transition. This process followed a common pattern which forms the **dynamic framework of well-being**. Three superordinate categories were identified in the coding framework: Determinants of current sense of self (the participant's starting point at any given stage of development); influences on transition to enhanced sense of self (the change process involved in improving well-being); and indicators of enhanced sense of self (how well-being is experienced by participants). Specific factors identified as implicated in the transition – the determinants, influences, and indicators – varied across individuals both in quality and quantity. These factors were linked to personal values, and the values attached to specific factors differed between people and in an individual over time. Different areas of life were associated with a differing sense of self, i.e. rather advanced stages in a specific area could coexist with poor sense of self in other areas.

Figure 1 shows the dynamic framework of well-being, illustrating the direction of change and the relationship between the three superordinate categories. It illustrates the interplay of factors on a person's trajectory towards well-being and the dynamic nature of the process. As soon as an enhanced sense of self has been achieved, this becomes the new current sense of self allowing further development, e.g. in other aspects of the self which are perceived as deficient, to start from there. This makes the striving for well-being in individuals an iterative and ongoing process, which can also suffer setbacks, e.g. in case of a psychotic relapse, and may then have to be picked up a gain at a lower level than before.

Insert Figure 1 here

Category 1: Determinants of current sense of self

1.1 Personality

Personality was important for defining current sense of self. It also explained the nature of the desired enhanced sense of self and the perceived routes towards it. Personality was described as comprising character traits, personal values, strengths and interests. Values included things like having money, status symbols, a specific religious denomination, positivity, continuity, or social responsibility. Acting on strengths and interests was generally perceived as rewarding.

"I'm a writer, I'm an author, and I like it when people like my books. I feel very good when I'm writing. I like all things about that. Writing makes me feel good". (#1)

1.2 Memories

Memories of personally important experiences shaped current sense of self. They included upbringing, country of origin, relationships, health care, and activities. Good memories could provide hope or simply be an indulgence which yields positive feelings. While negative memories may damage current sense of self, they could also yield increased motivation for change and achievement.

1.3 Health

Participants connected physical health with their current sense of self. Illness symptoms or pain had a negative impact. Obesity was a particularly prominent concern. Being connected to antipsychotic medication, obesity was perceived as frustrating, conveying a sense of powerlessness and a negative self-image. Accepting obesity required great personal effort and losing weight was amongst the most frequently mentioned wishes in order to attain enhanced sense of self.

The problem of obesity it puts me down sometimes, it's not good for my well-being. There is no way I can reduce my weight because I have to keep on with the medication, and it started making me feel very sad and disappointed (#13)

Mental health symptoms could interfere with any important aspect of life and impair the current sense of self. They impeded transition to enhanced sense of self, e.g. by impairing concentration or motivation. Mental health symptoms were even defined as the opposite of well-being, especially suicidality, threatening delusions, or serious substance abuse.

Because of the condition I just completely drop everything and I just give up and I lock myself inside for weeks and barely eat and forget to call my family, my parents, my kids, don't even look after myself properly. Sometimes I have passed weeks without showering and my house became a big mess. (#6)

However, one participant also reported goals of solving various world problems so as to enhance sense of self by providing meaning and self-worth.

Category 2: Influences on transition to enhanced sense of self

The change process involved in improving well-being represented a “*transition to enhanced sense of self*”. The factors influencing the transition occurred on the four levels of the static framework: non-observable, observable, proximal, and distal.

2.1 Non-observable influences

Internal change processes pertained to attitudes, future thinking, and reflection. Examples of adaptive changes in attitudes included assuming more positive thinking styles, revising self-expectations, learning to acknowledge own abilities, and engaging in downward rather than upward social comparison.

“I know they say ‘compare to despair’ but the opposite is true as well. So it’s ‘compare and be grateful for what you’ve got’.” (#21)

Future thinking (both realistic and unrealistic) can facilitate transition. While goals provided a frame of references, an anchor for coping and achievement, dreams conveyed an imagined sense of normality and comfort, also leading to enhanced sense of self.

“If I had a job, I’d work my hardest to get to the top and be the managing director of the company, if that was possible. For me it never was possible, so it’s a dream. It’s a dream that leaves me with hope. Once you got hope, you can keep the faith.” (#4)

Reflection, for example through therapy, meditation, writing, or chatting, was deemed indispensable for the transition to an enhanced sense of self. Positive effects included insight, new perspectives, orientation and motivation, and better problem solving. It also helped to appreciate achievements, embrace limitations, and find forgiveness. Forgiveness was a particularly complex topic, susceptible to conceptual confusion and difficult to achieve, but it held the potential to relieve tension, be empowering and help to move on in life. It was deemed positive especially when construed as forgiving oneself.

2.2 Observable influences

This category comprises visible behaviours and activities, such as social interactions, support-seeking, self-care, having a treat, kindness, and spiritual practise. Re-establishing connections was challenging but an important and ultimately rewarding task. Related processes included overcoming social anxiety, practising social skills, and finding activities with other people. In particular, social interaction with non-service users seemed to facilitate transition. Proposed ways to receive support, feed-back or acknowledgement were strongly

tied to social contact and positive relationships, e.g. with family, mental health professionals, or in faith communities, voluntary work or other spare-time activities.

"I get reassurance from family and the doctors and that keeps my well-being up, you know, I feel that I'm ok, so long as I get the reassurance from people." (#15)

Self-care included establishing a daily structure, personal hygiene, and eating regular healthy meals, but also resisting alcohol, drugs or nicotine, or monitoring one's physical fitness and weight.

Having a treat went beyond self-care. For example, while healthy, regular eating was deemed part of self-care, indulging in the experience of good food may serve as a treat. It can be a 'bonus' to generate positive feelings, aid relaxation, and enliven one's daily structure.

You can listen to a happy song, you can blast the radio on and have a nice shower and wash your hair with the radio on. You can put moisturiser on, that's important as well. (#9)

Kindness, involving doing something for others, was perceived as rewarding, satisfying and profoundly enhancing of sense of self. Kindness, attention and care could be addressed towards anyone, but family members such as parents, children and grandchildren seemed particularly important.

I look after my grandchildren, and I help other people. I always loved to help people. (#10)

Spiritual practice, such as church, mosque, private meditation or prayer, helped enhance sense of self through a number of pathways including the establishment of sympathetic social contact and feelings of comfort, security and orientation, improving insight and supporting personality development.

Going to church I get to mix with my brethren, find people to talk to, not being on my own, listen to the lovely sermon, singing, you know, that gives me comfort. (#23)

Activities, if they matched needs and interests, also had a range of positive effects from aiding daily structure to directly increasing self-worth. Leisure activities were perceived as particularly positive when coupled with social connection. Amongst specific activities, having paid employment was most highly valued. However, most participants were long-term unemployed so volunteering was considered the second most rewarding activity.

I do voluntary work with older people. It makes me feel good that I'm doing something (#22)

2.3 Proximal influences

This category comprises factors under limited personal control, including basic needs, relationships, antipsychotic medication, psychotherapy, and mental health services and staff. Having basic needs met, including a place to live, not being hungry, and having sufficient money, was deemed essential for any positive development.

Relationships were particularly important to all participants. Supportive, validating, reciprocal relationships were ascribed a multitude of positive effects. Good relationships with family were paramount as family gave unconditional support.

"There's no substitution for family. Family do things that friends wouldn't do, sometimes friends initially also help you but family are always there and help you no matter what." (#5)

Identified sources of happiness included children and grandchildren and having a partner. An intimate life partner or sex life was intensely wished for, and often considered as something essential, potentially life-changing and boosting sense of self, both by those who had already experienced intimate partnerships as well as by those who had not.

There were conflicting views about antipsychotic medication. Participants talked about rejection, ambivalence, resignation and about a process of acceptance. While medication could be vital for functioning and the basis for positive development, it may also have debilitating side effects; and being able to live without medication was amongst the main visions for an enhanced sense of self.

Psychotherapy facilitated a multitude of positive adaptations leading to enhanced sense of self. Group therapy or peer support additionally had the reassuring and identity enhancing effect of sharing problems with others who had similar experiences. Mental health services were perceived as a source of support despite possibly serious harmful effects on identity, e.g. of involuntary treatment. Specific staff members, especially those conveying a sense of connection and mutual understanding, were described as a supremely positive influence on personal development.

She just understands me and the way she talks to me is like, she doesn't seem like a therapist but more like a daughter. She talks to me very nicely and what I found with her, I just opened up; I never hold nothing back from her. (#11)

2.4 Distal influences

This category comprises factors beyond an individual's influence, including societal values, economy, and environment. Societal values were described to facilitate the change process by providing options and opportunities, e.g. access to leisure activities or education.

"It's having these opportunities to do things because when one is unwell one doesn't see the opportunities that there are." (#17)

More generally, societal values provided a frame of reference and a sense of order and security. The economy was especially challenging for participants, many of whom were unemployed and dependent on social welfare, e.g. disability allowance. The economic recession was mentioned as a source of insecurity. Experiencing the environment, e.g. sunshine, a walk in the park, or even television programmes about the natural wonders of the planet, may impact positively on mood and even create a sense of serenity.

"When I see all of the beauty of nature, it makes me feel calmer in the inside." (#20)

Category 3: Indicators of Enhanced sense of self

Seven indicators of an enhanced sense of self were identified, as shown in Figure 1.

Good feelings or happiness in general were most frequently mentioned indicators of an enhanced sense of self. Naming specific positive emotions was often difficult, but participants mentioned comfort, solace, calmness, relaxation, peace of mind, contentment and serenity. Positive bodily feelings, such as feeling well after exercise or feeling attractive, also indicated improved well-being, as did having fun.

Symptom relief was discussed by all participants as profoundly tied to enhanced sense of self. It was often seen as the basis of well-being, or even as a basis of life. If symptoms remained then improved coping was essential.

"You're not letting the voices or paranoia control you, you're doing what you want to do. Well-being to me is, even if you're paranoid you still get on and do things." (#22)

Feeling **connected** with others, being a valued part of a relationship or group, and especially feelings of love amplified the sense of self.

When there are people asking for my service that makes me feel good, makes me feel worthwhile, and I get more connected with people from the project I am doing. These people need me and I have to provide for them. So there is this attachment, a strong bond which connects us. (#3)

Having **hope** and optimism was described as a further fundamental indicator of enhanced sense of self. Hope was not only an important outcome, but also a trigger for further positive developments, a force that kept people going despite potential setbacks.

“If you have hope you know you have a future, and only then your life has value.”
(#19)

Self-worth was characterised as feeling whole, a positive self-image, self-acceptance, self-esteem, self-confidence, a sense of achievement, satisfaction, and a sense of normality.

“When you’ve done your best and you’re happy with it and you have accepted who you are and where you are going in life. (#14)

Empowerment was described as a sense of self-determination, control and freedom, as having inner strength, agency, and being able to do what is important in life.

“Well-being for me means doing things as an autonomous individual.” (#7)

Having **meaning** in life was described as having a frame of reference, e.g. a valued societal role or religion.

I’m a representative for the low support unit [...] It makes me feel good doing it, I feel a sense of comfort and purpose when I’m doing it because I’m not only doing it for me, I’m doing it for other people. Other people who don’t want to speak, I can speak on their behalf, I convey it back to the council and see if we can come up with some suggestions that might help. (#12)

Discussion

This study found that the process of improving well-being in people with psychosis was strongly tied to sense of self. Current sense of self was determined by three influences: personality, memories, and health. Improving well-being was an ongoing process in which the current sense of self undergoes a transition towards an enhanced sense of self. Influences that impact on this transition could be categorised according to the domains of the static framework of well-being: observable, non-observable, proximal, and distal (Schrank et al., 2013a). Participants described an enhanced sense of self as equivalent to improved well-being. The indicators of enhanced sense of self comprised good feelings, symptom relief, connection, hope, self-worth, empowerment, and meaning. The enhanced sense of self may then facilitate transition in other areas in an iterative fashion. Factors involved in the process varied in quality and quantity, both across individuals and over time.

Aim 1: To validate the static framework of well-being

Factors influencing transition to enhanced sense of self were consistent with, and therefore validated, the static framework of well-being. The place of the static framework as an organising structure for influences on the transition illustrates the previously identified challenge of defining the concept (Schrack et al., 2013b). The static framework is based on assessment measures for well-being. These tools often contained items which conflated factors that influence well-being and well-being itself. For example, the latest measure of population well-being developed by the Office of National Statistics in the UK includes wealth in combination with economic, social and environmental factors (Self et al., 2012). Other recent concepts of well-being have combined what would be both influences on and indicators of well-being according to the results of our study, such as the PERMA model of individual well-being which contains positive emotions, engagement, relationships, meaning and accomplishment (Seligman, 2011).

None of the existing measurement tools or interventions to improve well-being described in the literature span all possible influences on well-being (Schrack et al., 2013a). Interventions to improve well-being have been tested in various client groups. These have focussed on one of the influences, such as neighbourhood economic status (Ludwig et al., 2012), or physical exercise (Gademan et al., 2012), or on specific combinations of some influences such as physical and activity, health behaviour, and social engagement (Clare et al., 2012).

Aim 2: To develop a dynamic framework of well-being

The dynamic framework indicates that conducive circumstances and personal effort can lead to an upward spiral of positive development and continuously increased well-being. A similar upward spiral has been found for the beneficial effect of positive emotions and a broad thought-action repertoire which may amplify each other to counteract the detrimental effects of negative emotions and contribute to resilience (Luthans et al., 2007). While an upwards spiral is certainly not without a ceiling, especially given the likelihood of setbacks in the context of severe mental illness and the potential existence of areas resistant to positive change, the conceptualisation of well-being in the dynamic framework provides a strengths and resource oriented supplement to deficit-oriented approaches in mental health care. This places the framework in the context of resource oriented approaches and positive psychology (Waterman, 2013).

Substantial overlap exists between different positively oriented concepts (Caprara et al., 2010). Conceptual overlaps exist between well-being and other concepts describing a good

life, including quality of life, personal growth and self-actualisation, or life satisfaction (Schrack et al., 2013b). Similarly, different positively framed, i.e. resource oriented, therapy models utilise overlapping types of resources, such as social relationships, strengths, self-actualisation techniques or recreational activities (Pribe et al., 2013). In practise, using specific positive approaches may well have a spill-over effect on additional positive outcomes besides the explicitly targeted one (Schrack et al., 2013a). However, more conceptual work may be needed to analyse overlapping positive intervention models and their overlapping outcomes (Pribe et al., 2013).

Most prominently, the concepts of well-being and recovery do overlap (Amering, 2012). For example, recovery processes identified in a systematic review were connectedness, hope, identity, meaning, and empowerment (Leamy et al., 2011). These recovery processes mirror the *indicators* of enhanced self. However, the indicators in the dynamic framework in addition include symptom relief and, most prominently, good feelings. Well-being is also frequently mentioned as an important goal of recovery orientation in service provision (Slade et al., 2012; Le Boutillier et al., 2011). This suggests a conceptual convergence of recovery and well-being. The two approaches may ultimately coincide when both are applied effectively. If the aim of mental health services is to support recovery, then this may involve a re-orientation towards mainstream sources of well-being. From a recovery perspective, it has been argued that mainstream solutions should be preferred over specialist solutions to mainstream problems (Slade, 2012). For example, supported exposure to social environments is preferable to social skills training for people who want more friends. By analogy, everyday sources of well-being – such as employment, friendship, exercise, sex, or prayer – are as important for people experiencing psychosis as for any other group in society. This is consistent with the ‘Transcendent principle of personhood’ – “people with severe mental illness are people” (Anthony, 2004). Emphasising commonality in sources of well-being between people with and without psychosis may be more helpful than identifying diagnosis-specific sources of well-being.

Clinical implications

The four dimensions of influences on the transition can serve to identify targets for clinical interventions to improve well-being in people with psychosis. Distal influences, such as socio-economic status or green areas, have been shown to impact on well-being and mental health service use (Curtis, 2007; Losert et al., 2012), but they will be the focus of population level interventions rather than mental health services. Feasible interventions exist for the remaining three dimensions. Proximal influences may be addressed through promoting recovery orientation in care teams (Slade et al., 2011), systemic therapies focusing on family

relations (Gottlieb et al., 2012), supporting social networks (Sundermann et al., 2012, Gayer-Anderson & Morgan, 2012), or interventions to help meet basic needs (Fisher & Elnitsky, 2012). Observable influences may be targeted using goal setting interventions (Le Boutillier et al., 2011), or relaxation techniques (Vancampfort et al., 2013). Using interventions in a group format may further support the application of observable influences such as social interaction, mutual support or kindness. Non-observable influences may be addressed through cognitive behavioural and related therapeutic approaches such as mindfulness (Langer et al., 2012), acceptance and commitment therapy (Pull, 2009), or schema therapy (Masley et al., 2012), as well as humanistic approaches which focus on finding meaning.

The fact that our purposive sampling strategy led to a heterogeneous sample of people with a long history and a large standard deviation of onset of illness, means that our results are likely generalisable to a diverse clinical population of people with psychosis. It also stresses the importance of acknowledging individual differences, as not all factors will equally apply to every client with psychosis. Our findings support the assumption that focussing on a specific set of influences is likely to be unsuitable for any heterogeneous groups of people (Purgato & Adams, 2012). More flexible, values- and interest-based interventions are most likely to be successful. The importance of attending to individual values in the treatment of people with mental disorders has been widely acknowledged (Barbui & Cipriani, 2011). Given the variability of individually important influences for well-being, a flexible approach focusing on strengths and positive experiences may be most promising.

An understanding of how adaptive processes unfold that lead to improved well-being is clinically important. This paper focused on the development of an overall framework to describe the dynamics of well-being in people with a diagnosis of psychosis. The next stage of research will involve the development of a detailed understanding of the identified change process. This will require qualitative research involving people who currently undergo or have recently undergone changes in well-being (Carey et al., 2007). Promising theoretical bases exist for understanding change processes, such as cognitive behavioural theory (Bandura, 1977) or Perceptual Control Theory (Carey, 2011). Further investigation of change processes in relation to well-being may also be possible as part of the process evaluation of an intervention aiming to increase well-being in this client group.

Research implications

Interventions that target influences on the transition have been variably tested in people with psychosis. Currently, no structured intervention exists for this client group which is directed

at a combination of influences and explicitly targets well-being. Positive Psychotherapy (PPT) is an intervention which simultaneously addresses a number of influences on the transition in order to improve well-being with promising results in healthy people and those with mild and common mental disorders (Rashid, 2008). It focuses on individual strengths and positive experiences and provides a framework that allows for flexibility to work on individually relevant and valued influences on well-being. PPT may be a promising candidate intervention to also improve well-being in people with psychosis. The specific adaptation and evaluation of PPT in people with psychosis should be a target for future research.

This study provides an empirically defensible framework for understanding well-being in terms of determinants, influences and indicators. The influences are targets for interventions to improve well-being, and the indicators are outcome domains to assess the effectiveness of services in supporting well-being.

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Conflict of Interest

The authors declare no conflict of interest.

Ethical Standards

The authors assert that all procedures contributing to this work comply with the ethical standards of the relevant national and institutional committees on human experimentation and with the Helsinki Declaration of 1975, as revised in 2008.

References

- Amering M** (2012). Recovery, science and human rights. *Epidemiology and Psychiatric Sciences* **21**, 367-369.
- Anthony A** (2004). The principle of personhood: the field's transcendent principle. *Psychiatric Rehabilitation Journal* **27**, 205.
- Bandura A** (1977) Self-efficacy: Toward a unifying theory of behavioral change. *Psychological Review* **84**, 191-215.
- Barbui C, Cipriani A** (2011). What are evidence-based treatment recommendations? *Epidemiology and Psychiatric Sciences* **20**, 29-31.

- Bellani M, Nobile M, Bianchi V, Van Os J, Brambilla P** (2013). G x E interaction and neurodevelopment II. Focus on adversities in paediatric depression: the moderating role of serotonin transporter. *Epidemiology and Psychiatric Sciences* **22**, 21-8.
- Braun V, Clarke V** (2006). Using thematic analysis in psychology. *Qualitative Research in Psychology* **3**, 77-101.
- Caprara GV, Steca P, Alessandri G, Abela JR, Mcwhinnie CM** (2010). Positive orientation: explorations on what is common to life satisfaction, self-esteem, and optimism. *Epidemiologia e Psichiatria Sociale* **19**, 63-71.
- Carey TA** (2013). A qualitative study of a social and emotional well-being service for a remote Indigenous Australian community: implications for access, effectiveness, and sustainability. *BMC Health Services Research* **13**, 80.
- Carey TA** (2011). Exposure and reorganization: The what and how of effective psychotherapy. *Clinical Psychology Review* **31**, 236-248.
- Carey TA, Carey M, Stalker K, Mullan RJ, Murray LK, Spratt MB** (2007). Psychological change from the inside looking out: A qualitative investigation. *Counselling and Psychotherapy Research* **7**, 178-187.
- Clare L, Hindle JV, Jones IR, Thom JM, Nelis SM, Hounscome B, Whitaker CJ** (2012). The AgeWell study of behavior change to promote health and wellbeing in later life: study protocol for a randomized controlled trial. *Trials* **13**, 115.
- Curtis S** (2007). Socio-economic status and geographies of psychiatric inpatient service use. Places, provision, power and well-being. *Epidemiologia e Psichiatria Sociale* **16**, 10-15.
- Dimitraki G, Karademas EC** (2013). The Association of Type 2 Diabetes Patient and Spouse Illness Representations with Their Well-being: A Dyadic Approach. *International Journal of Behaviour Medicine* 2013 Feb 24. [Epub ahead of print]
- Earnshaw VA, Smith LR, Chaudoir SR, Amico KR, Copenhaver MM** (2013). HIV Stigma Mechanisms and Well-Being Among PLWH: A Test of the HIV Stigma Framework. *AIDS and Behaviour* **17**, 1785-1795.
- Fisher MP, Elnitsky C** (2012). Health and social services integration: a review of concepts and models. *Social Work in Public Health* **27**, 441-468.
- Fredrickson BL, Joiner T** (2002). Positive emotions trigger upward spirals toward emotional well-being. *Psychol Sci*, **13**, 172-5.
- Gademan MG, Deutekom M, Hosper K, Stronks K** (2012). The effect of exercise on prescription on physical activity and wellbeing in a multi-ethnic female population: A controlled trial. *BMC Public Health* **12**, 758.
- Gayer-Anderson C, Morgan C** (2012). Social networks, support and early psychosis: a systematic review. *Epidemiology and Psychiatric Sciences* **22**, 1-16.
- Gottlieb JD, Mueser KT, Glynn SM** (2012) Family therapy for schizophrenia: co-occurring psychotic and substance use disorders. *Journal of Clinical Psychology*, **68**, 490-501.
- Kratz AL, Hirsh AT, Ehde DM, Jensen MP** (2013). Acceptance of pain in neurological disorders: Associations with functioning and psychosocial well-being. *Rehabilitation Psychology* **58**, 1-9.
- Lanfredi M, Rossi G, Rossi R, Van Bortel T, Thornicroft G, Quinn N, Zoppei S, Lasalvia A** (2013). Depression prevention and mental health promotion interventions: is stigma taken into account? An overview of the Italian initiatives. *Epidemiology and Psychiatric Sciences* 28 February 2013, *FirstView Article*, pp 1-12.
- Langer AI, Cangas AJ, Salcedo E, Fuentes B** (2012). Applying mindfulness therapy in a group of psychotic individuals: a controlled study. *Behavioural and Cognitive Psychotherapy* **40**, 105-109.
- Le Boutillier C, Leamy M, Bird V, Davidson L, Williams J, Slade M** (2011). What does recovery mean in practice? A qualitative analysis of international recovery-oriented practice guidance. *Psychiatric Services* **62**, 1470-1476.
- Leamy M, Bird V, Le Boutillier C, Williams J, Slade M** (2011). Conceptual framework for personal recovery in mental health: systematic review and narrative synthesis. *The British Journal of Psychiatry* **199**, 445-452.

- Li T, Fung HH** (2013). How avoidant attachment influences subjective well-being: An investigation about the age and gender differences. *Aging and Mental Health* 2013 March 1 [Epub ahead of print]
- Losert C, Schmauss M, Becker T, Kilian R** (2012). Area characteristics and admission rates of people with schizophrenia and affective disorders in a German rural catchment area. *Epidemiology and Psychiatric Sciences* **21**, 371-379.
- Ludwig J, Duncan GJ, Gennetian LA, Katz LF, Kessler RC, Kling JR, Sanbonmatsu L** (2012). Neighborhood effects on the long-term well-being of low-income adults. *Science* **337**, 1505-10.
- Luthans F, Avolio BJ, Avey JB, Norman SM** (2007). Positive psychological capital: Measurement and relationship with performance and satisfaction. *Personnel Psychology* **60**, 541-572.
- Masley SA, Gillanders DT, Simpson SG, Taylor MA** (2012). A systematic review of the evidence base for Schema Therapy. *Cognitive Behaviour Therapy* **41**, 185-202.
- Priebe S, Omer S, Giacco D, Slade M** (2013). Resource-oriented therapeutic models in psychiatry - A conceptual review. *Submitted for publication*.
- Priebe S, Reininghaus U** (2011). Fired up, not burnt out--focusing on the rewards of working in psychiatry. *Epidemiology and Psychiatric Sciences* **20**, 303-305.
- Pull CB** (2009). Current empirical status of acceptance and commitment therapy. *Current Opinion in Psychiatry* **22**, 55-60.
- Purgato M, Adams CE** (2012). Heterogeneity: the issue of apples, oranges and fruit pie. *Epidemiology and Psychiatric Sciences* **21**, 27-9.
- Rashid T** (2008). Positive Psychotherapy. In Positive psychology: Exploring the best in people. (ed. S.J. Lopez) Greenwood Publishing Company, Westport CT.
- Resnick SG, Rosenheck RA** (2006). Recovery and positive psychology: parallel themes and potential synergies. *Psychiatric Services* **57**, 120-122.
- Schrank B, Bird V, Tylee A, Coggins T, Rashid T, Slade M** (2013a). Conceptualising and measuring the well-being of people with psychosis: systematic review and narrative synthesis. *Social Science & Medicine*, in press.
- Schrank B, Riches S, Tylee A, Coggins T, Slade M** (2013b). From objectivity to subjectivity: conceptualisation and measurement of well-being in mental health. *Neuropsychiatry*, submitted for publication.
- Schueller SM, Parks AC** (2012). Disseminating self-help: positive psychology exercises in an online trial. *Journal of Medical Internet Research* **14**, e63.
- Self A, Thomas J, Randall C** (2012). *Measuring National Well-being: Life in the UK, 2012* [Online]. Available: http://www.ons.gov.uk/ons/dcp171766_287415.pdf [Accessed November].
- Seligman MEP** (2011). Flourish: A New Understanding of Happiness and Well-Being - and How To Achieve Them, Nicholas Brealey Publishing.
- Shepard LD, Sundermann O** (2013). The impact of polygamy on women's mental health: a systematic review. *Epidemiology and Psychiatric Sciences* **22**, 47-62.
- Slade M** (2010). Mental illness and well-being: the central importance of positive psychology and recovery approaches. *BMC Health Services Research* **10**, 26.
- Slade M** (2012). Everyday solutions for everyday problems: how mental health systems can support recovery. *Psychiatr Services* **63**, 702-704.
- Slade M, Bird V, Le Boutillier C, Williams J, Mccrone P, Leamy M** (2011). Refocus Trial: protocol for a cluster randomised controlled trial of a pro-recovery intervention within community based mental health teams. *BMC Psychiatry* **11**, 185.
- Slade M, Leamy M, Bacon F, Janosik M, Le Boutillier C, Williams J, Bird V** (2012). International differences in understanding recovery: systematic review. *Epidemiology and Psychiatric Sciences* **21**, 353-364.
- Sundermann O, Onwumere J, Bebbington P, Kuipers E** (2012). Social networks and support in early psychosis: potential mechanisms. *Epidemiology and Psychiatric Sciences* **22**, 1-4.

- Vancampfort D, Correll CU, Scheewe TW, Probst M, De Herdt A, Knapen J, De Hert, M** (2013). Progressive muscle relaxation in persons with schizophrenia: a systematic review of randomized controlled trials. *Clinical Rehabilitation* **27**, 291-298.
- Waterman AS** (2013). The humanistic psychology-positive psychology divide: Contrasts in philosophical foundations. *American Psychologist* **68**, 124-133.
- Willig C** (2008). *Introducing Qualitative Research in psychology*. Second Edition. Second Edition ed. Maidenhead, Open University Press, UK.

Table 1: Sociodemographic and clinical characteristics of participants (n=23)

Age (mean years, SD)		
	44.6	9.3
Gender male (n, %)		
	15	65.2
Time since first illness onset (mean years, SD)*		
	16.5	10.5
Self-reported diagnosis (n, %)		
Schizophrenia	15	65.2
Psychosis	2	8.7
Schizoaffective disorder/Bipolar psychosis	2	8.7
Depression	2	8.7
Nervous breakdown	1	4.3
No mental health problems	1	4.3

* Two participants excluded due to invalid response

Table 2: Coding framework for well-being

<i>Category 1: DETERMINANTS of current sense of self</i>	<i>Category 2: INFLUENCES on transition to enhanced sense of self</i>	<i>Category 3: INDICATORS of enhanced sense of self</i>
1.1 Personality Character traits Personal values Strengths Interests	2.1 Non-observable influences Attitudes Future thinking Reflection	3.1 Good feelings 3.2 Symptom relief 3.3 Connectedness 3.4 Hope & optimism 3.5 Self-worth 3.6 Empowerment 3.7 Meaning and orientation
1.2 Memories Good memories Bad memories	2.2 Observable influences Social interactions Support-seeking Self-care	
1.3 Health Mental health Physical health	Having a treat Kindness Spiritual practise Engaging in activities	
	2.3 Proximal influences Basic needs Relationships Mental health services and staff Antipsychotic medication Psychotherapy	
	2.4 Distal influences Societal values Economy Environment	

Figure 1: Dynamic framework of well-being

